Performance Data Sheet

AVB5538EXN

General Information

Model	AVB5538EXN	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	10400	8320					
	Watts	1460	1470					
	Amps	6.52	6.63					
	Lb/h	134	111					
-10	Btu/h	12800	10700	8800				
	Watts	1600	1620	1620				
	Amps	7.10	7.28	7.31				
	Lb/h	165	143	122				
-5	Btu/h	15400	13300	11300	9430			
	Watts	1720	1770	1790	1780			
	Amps	7.63	7.89	8.01	7.98			
	Lb/h	197	176	156	136			
0	Btu/h	18200	16000	14000	12000	10100		
	Watts	1840	1900	1940	1950	1940		
	Amps	8.11	8.46	8.67	8.73	8.64		
	Lb/h	231	211	191	172	151		
5	Btu/h	21300	19000	16800	14700	12700		
	Watts	1940	2020	2080	2120	2130		
	Amps	8.55	8.98	9.29	9.45	9.46		
	Lb/h	268	248	228	209	189		
10	Btu/h	24500	22100	19900	17700	15500	13300	11100
	Watts	2030	2130	2210	2270	2310	2310	2280
	Amps	8.93	9.45	9.86	10.1	10.3	10.2	10.0
	Lb/h	307	287	268	249	228	206	181
15	Btu/h	28100	25600	23100	20800	18500	16100	13800
	Watts	2110	2230	2340	2420	2480	2510	2510
	Amps	9.25	9.87	10.4	10.8	11.0	11.1	11.0
	Lb/h	349	329	310	291	270	247	222
20	Btu/h	32000	29300	26700	24200	21700	19100	16600
	Watts	2170	2320	2450	2550	2640	2690	2720
	Amps	9.51	10.2	10.8	11.3	11.7	11.9	12.0
	Lb/h	394	375	355	335	314	291	265

25	Btu/h	36200	33300	30500	27800	25100	22400	19600
	Watts	2220	2390	2540	2680	2790	2870	2930
	Amps	9.71	10.5	11.3	11.9	12.4	12.7	12.9
	Lb/h	443	423	403	383	362	338	311
30	Btu/h	40700	37600	34600	31700	28800	25800	22800
	Watts	2250	2440	2630	2790	2930	3040	3130
	Amps	9.84	10.8	11.6	12.4	13.0	13.5	13.8
	Lb/h	496	475	455	434	412	388	360
35	Btu/h	45600	42300	39100	35900	32800	29600	26300
	Watts	2260	2480	2690	2890	3060	3200	3320
	Amps	9.90	10.9	11.9	12.8	13.5	14.2	14.7
	Lb/h	553	532	511	489	466	441	412
40	Btu/h	51000	47400	44000	40500	37100	33600	30100
	Watts	2250	2510	2750	2970	3170	3350	3490
	Amps	9.89	11.1	12.1	13.1	14.0	14.8	15.5
	Lb/h	614	592	570	548	524	498	468
45	Btu/h	56800	52900	49200	45500	41800	38000	34100
	Watts	2230	2510	2780	3040	3270	3480	3660
	Amps	9.80	11.1	12.3	13.4	14.5	15.4	16.2
	Lb/h	680	657	635	611	586	558	527
50	Btu/h	63000	58900	54900	50800	46800	42700	38500
	Watts	2180	2500	2800	3090	3360	3600	3820
	Amps	9.64	11.0	12.4	13.7	14.8	15.9	16.9
	Lb/h	751	727	704	679	652	623	591
55	Btu/h	69800	65300	61000	56600	52200	47800	43300
	Watts	2120	2470	2800	3130	3430	3710	3960
	Amps	9.39	10.9	12.4	13.8	15.2	16.4	17.5
	Lb/h	827	803	778	752	724	693	659

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.589091E+04	1.025182E+03	1.946327E+00	5.292728E+02
C2	6.679982E+02	-3.353794E+00	6.665059E-03	5.675295E+00
C3	-5.093141E+02	9.834340E+00	9.982292E-02	-6.246661E+00
C4	8.021188E+00	-4.482387E-01	-1.681252E-03	7.059795E-02
C5	-5.573340E-01	2.543899E-01	4.861110E-04	2.495573E-02
C6	2.617571E+00	4.921201E-02	-1.175955E-04	4.297257E-02
C7	3.555497E-02	-1.159105E-03	-4.157302E-06	4.157729E-04
C8	-4.431539E-02	2.595809E-03	8.259016E-06	-3.138379E-04
C9	-6.302920E-03	7.544548E-04	7.234209E-06	-9.235857E-05
C10	-7.164312E-03	-5.627636E-04	-2.081043E-06	-1.431608E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature